

Title (en)

Reducing image artifacts on display panels caused by phosphor time response

Title (de)

Verminderung von durch die Phosphorantwortzeit verursachten Bildartefakten in einer Anzeige

Title (fr)

Réduction des artefacts des images d'un dispositif d'affichage causé par le temps de réponse des phosphores

Publication

**EP 1361559 A1 20031112 (EN)**

Application

**EP 03291000 A 20030424**

Priority

- EP 03291000 A 20030424
- EP 02291161 A 20020507

Abstract (en)

Since the phosphor lag effect results from the slowness of the green and red phosphors and since it is not possible to make these phosphors faster, the blue one has to be made slower in order to reduce the color trail effect. Therefore, a part of the blue component is artificially delayed. Only a certain percentage of the blue component of the actual frame is transmitted during the actual frame, whereas the rest of the blue component will be transmitted during the next frames. The dynamic false contour effect introduced by this video processing may be compensated by subfield shifting.

<IMAGE>

IPC 1-7

**G09G 3/28**; G09G 5/02

IPC 8 full level

**G09G 3/20** (2006.01); **G09G 3/22** (2006.01); **G09G 3/28** (2013.01); **G09G 5/02** (2006.01)

CPC (source: EP)

**G09G 3/2022** (2013.01); **G09G 3/2003** (2013.01); **G09G 3/204** (2013.01); **G09G 3/22** (2013.01); **G09G 3/28** (2013.01); **G09G 2320/0242** (2013.01); **G09G 2320/0257** (2013.01); **G09G 2320/0261** (2013.01); **G09G 2320/0266** (2013.01); **G09G 2340/16** (2013.01)

Citation (search report)

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- [A] EP 0924684 A1 19990623 - THOMSON MULTIMEDIA SA [FR]
- [A] EP 0974953 A1 20000126 - BRITISH BROADCASTING CORP [GB]

Cited by

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Designated contracting state (EPC)

DE FR GB

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